MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

DCS5018 – COMPUTER SYSTEM AND APPLICATIONS

(For Diploma students only)

2 MARCH 2016
2.30 p.m - 4.30 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **SIX (6) pages** (excluding the cover page).

2. There are **THREE (3) sections** in this Question paper. Answer **ALL** questions.

   Section A: Multiple Choice Questions, Questions 1 - 20 (20 marks)
   Section B: True / False, Question 21 – 60 (40 marks)
   Section C: Structured Questions (40 marks)

3. For **Section A** and **B,** answer **ALL** questions on the OMR sheet provided.

4. For **Section C**, please write all your answers in the **Answer Booklet** provided.

Section A: 20 Multiple Choice Questions (20 marks)

*Instruction: Please shade your answers on the **OMR sheet** provided.*

1. Which of the following factor is **TRUE** when selecting a printer?
   A. Colour output
   B. Resolution
   C. Speed
   D. All the above

2. Which of the following is the **CORRECT** measurement unit?
   A. 1 KB = 1024 Bytes
   B. 1KB = 1000 Bytes
   C. 1MB = 1024 Bytes
   D. 1 MB = 1000 Bytes

3. Which of the following is **NOT** the example of web browser?
   A. Google.com
   B. Mozilla Firefox
   C. Internet Explorer
   D. Opera

4. All of the following are the example of top-level domain **EXCEPT**:
   A. .net
   B. .com
   C. .bus
   D. .biz

5. In order to save an existing document with a different name you need to _____.
   A. use the Save As command in File Menu
   B. retype the document and give it a different name
   C. copy and paste the original document to a new document and then save
   D. use windows explorer to copy the document to a different location and then rename it

6. Which of following is the keyboard shortcut key to bold selected text?
   A. Ctrl + U
   B. Ctrl + B
   C. Shift + B
   D. None of the above

7. Which of the following is **NOT** an application software?
   A. Photoshop
   B. Page maker
   C. WinWord XP
   D. Windows NT

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8. The _____ display the name of every computer user on the computer
   A. Command screen
   B. Wish list screen
   C. Welcome Screen
   D. None of the above

9. Which of the following statement is **NOT TRUE** about Central Processing Unit?
   A. Stores data
   B. Processes instruction
   C. Located on motherboard
   D. Manages flow of information

10. RAM is an example of _____ storage because when the power is turned off, all the content inside RAM is cleared out.
    A. magical
    B. volatile
    C. permanent
    D. non-volatile

11. Which of the following is a network administration task?
    i) Installing new computers and devices.
    ii) Monitoring the network to ensure its performing efficiently.
    iii) Updating and installing new software on the network.
    iv) Configuring, or setting up, proper security for a network.

    A. i, ii, iii
    B. ii, iii, iv
    C. i, iii, iv
    D. All of the above

12. The network that you have at home differ greatly in terms of its _____, _____ and _____ from the one that found across your campus.
    A. size; structure; cost
    B. speed; structure; size
    C. size; device; speed
    D. distance; size; cost

13. What is the standard collection of software for smartphones operating system?
    A. Contact manager, to-do list, WhatsApp, calendar
    B. Calendar, android, contact manager, Facebook
    C. Calendar, to-do list, contact manager
    D. Contact manager, iOS, calendar

14. The operating system of a cell phone is stored in _____.
    A. CPU
    B. RAM
    C. ROM
    D. SD Card

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15. Which of the following statement is **TRUE** about cookies?
    A. Program that appears to be something useful or desirable.
    B. Programs that run on a large number of zombie computers.
    C. Text file for storing personal preferences pertaining to websites.
    D. Virus that is triggered by the passage of time or on a certain date.

16. Creating and distributing _____ is one of the most widespread types of cybercrimes.
    A. spam
    B. cookies
    C. zombies
    D. computer viruses

17. Which of the following is the final stage of the program development life cycle?
    A. Coding
    B. Making the plan
    C. Debugging the code
    D. Testing and documentation

18. The flowchart shape for a process is a(n) _____.
    A. oval
    B. square
    C. diamond
    D. rectangle

19. A _____ is a group of related data that can be stored, sorted, organized, and queried.
    A. spreadsheet
    B. database
    C. macro
    D. memo

20. If a school keeps two lists, one for student registration and one for student financial information, both containing name and address information. This is an example of data _____.
    A. integrity
    B. redundancy
    C. completeness
    D. normalization

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Section B: True / False (40 marks)

Instruction: Please shade A for True statements and B for False statements on the OMR sheet provided.

21. Output means gathers data, or allows users to enter data.
22. Speaker is an example of output device.
23. Wireless printers let several people print to the same printer from different devices and any location in the home.
24. A network interface card (NIC) enables a computer to connect with other computers or to a cable modem to facilitate a high-speed Internet connection.
25. Hypertext is a text with many images and sounds.
26. Facebook, YouTube and blogs are example of web entertainments.
27. Every device connected to the web has the same IP address.
28. There are three types of e-commerce business models such as B2B, B2C and C2C.
29. Application software helps to run computer and coordinates instruction between application and computer hardware devices.
30. Freeware software is copyrighted software that is distributed on the honour system, consumers should either pay for it or uninstall it after the trial period.
31. Network is a group of computers set up to communicate with one another.
32. Personal information manager program is one example of productivity software.
33. Smartphone is a multitasking capabilities.
34. One personal computer can have more than one operating system.
35. Error-checking is a Windows utility that checks for lost files and fragments as well as physical errors on your hard drive.
36. PnP stands for Plug and Play.
37. The CPU's cache memory is a form of RAM that gets data to the CPU for processing much faster than bringing the data in from the computer's RAM.
38. RAM capacity is measured in Kilobytes.
39. Data is stored on mechanical hard drives, solid state drives, and optical drives.
40. An adapter card can be added to the computer in a slot to add capabilities that are not provided by the motherboard.
41. Wired connections deliver better throughput than wireless.
42. You can add ports to your network by connecting a switch to your router.
43. Each device connected to a network must be a computer.

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44. HAN is a specific type of LAN located in a home.
45. All smartphone and features phones have the same components as any computer such as a processor, memory and input devices except read only memory.
46. Digital music files must be converted to the MP3 format if they are transferred to a mobile device.
47. Quality of lenses, image sensor size, resolutions and battery life is the factor to determine image quality for digital camera.
48. HDMI is single cable that carries all of the video and audio information.
49. Cybercriminals are individuals who use computers, networks, and the Internet to perpetrate crime.
50. A polymorphic virus changes its code or periodically rewrites itself to avoid detection.
51. Grey-hat hackers often break into systems merely to flaunt their expertise.
52. Hackers initiate a DDoS attack by creating and activating Trojan computer.
53. A loop is a control structure that continues to be performed while a test condition is true.
54. SQL stands for Structured Query Language.
55. During the program debugging stage, the people who will use the program test the software.
56. The flowchart shape for input or output is an oval.
57. A group of related records is called a table.
58. A data dictionary is also referred to as a field in database.
59. A multidimensional database stores data in more than two dimensions, as opposed to relational databases, which store data in two-dimensional tables.
60. Checking is the process of ensuring that the data entered into a field meets specified guidelines.

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Section C: 2 Structured Questions (40 marks)

*Instruction: Please write your answers in the **Answer Booklet** provided.*

Question 1 [20 Marks]

a) Explain **FIVE (5)** quality of an LCD for output devices. [5 Marks]

b) Distinguish between *full installation* and *custom installation.* [3 Marks]

c) Describe **TWO (2)** types of drive bays in personal computer. [2 Marks]

d) List **FOUR (4)** precautions that you must follow when using social networking sites. [4 Marks]

e) List and explain **THREE (3)** differences between podcast and webcast. [6 Marks]

Question 2 [20 Marks]

a) Briefly explain **TWO (2)** benefits of having computer networks in our life today. [5 marks]

b) State **TWO (2)** options to connect your smartphone to the internet. Give an advantage for each. [5 marks]

c) Briefly explain how computer virus work. [2 marks]

d) Differentiate between *logic bombs* and *time bombs.* [3 marks]

e) List **THREE (3)** advantages and **TWO (2)** disadvantages of using database in our lives. [5 marks]

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